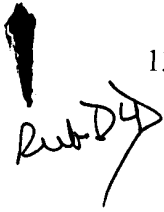


Interleukin-11 receptor (IL-11R), and glycoprotein 130 (gp130), thereby decreasing the rate in loss of bone density in said mammalian patient.

2. **(Reiterated)** The method of claim 1, which comprises administering to the patient an effective amount of a substance which inhibits, *in vivo*, the formation of a tertiary complex of IL-11, IL-11R, and gp130.
3. **(Reiterated)** The method of claim 2, wherein the pathological condition is postmenopausal bone loss.
4. **(Reiterated)** The method of claim 2, wherein the substance is a mutant IL-11R.
5. **(Amended Twice)** The method of claim 4 or claim 8, wherein the mutant IL-11R has at least one mutation in its gp130 binding region.
6. **(Amended Twice)** The method of claim 5, wherein the mutant IL-11R has at least one of the following mutations: D282→G282, A283→D283, G286→D286, H289→Y289, and V291→L291.
7. **(Amended Twice)** The method of claim 6, wherein the mutant IL-11R has the mutation H289→Y289.
8. **(Amended Twice)** The method of claim 4, wherein the mutant IL-11R is a soluble mutant IL-11R.
9. **(Amended Twice)** The method of claim 4 or claim 8, wherein the mutant IL-11R is a human IL-11R.
10. **(Reiterated)** The method of claim 2, wherein the substance is an anti IL-11 antibody.
11. **(Reiterated)** The method of claim 2, wherein the substance is an IL-11 binding peptide.

12. **(Reiterated)** The method of claim 11, wherein the substance is an IL-11 binding peptide having an amino acid sequence which specifically binds IL-11 in the region normally bound by IL-11R.

 13. **(Amended Twice)** The method of claim 12, wherein the substance is a peptide comprising the sequence identified by SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, or SEQ ID NO: 10.

14. **(Reiterated)** The method of claim 2, wherein the substance is a small molecule no more than 30 kd in molecular weight.

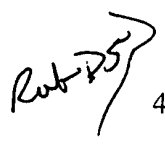
15. **(Reiterated)** The method of claim 2, wherein the substance is an IL-11 antagonist.

16. **(Reiterated)** The method of claim 2, wherein the substance is an IL-11R binding peptide.

17. **(Reiterated)** The method of claim 2, wherein the substance is an anti IL-11R antibody which inhibits interactions between IL-11 and the IL-11R.

18. **(Reiterated)** The method of claim 2, wherein the substance is an anti IL-11R antibody which inhibits interactions between IL-11R and gp130.

40. **(Amended Twice)** A composition useful in inhibiting IL-11 / IL-11R binding comprising an antibody which specifically binds the IL-11R and blocks binding between IL-11 and IL-11R.

 41. **(Amended Twice)** A composition useful in inhibiting IL-11R / gp130 binding via the gp130 binding site on IL-11R comprising an antibody which specifically binds the IL-11R and blocks binding between gp130 and IL-11R.

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Please add the following new claim:

42. (New) The method of claim 13, wherein the peptide comprises a sequence identified by SEQ ID NO: 5 or SEQ ID NO: 6.

*The claims presented above incorporate changes as indicated by the marked-up versions below.*

1. (Amended Twice) A method for inhibiting reduction of bone density in a mammalian patient having a pathological condition in which bone density is decreased, comprising inhibiting in the patient the formation of a tertiary complex of Interleukin-11 (IL-11), Interleukin-11 receptor (IL-11R), and glycoprotein 130 (gp130), thereby decreasing the rate in loss of bone density in said mammalian patient.
5. (Amended Twice) The method of claim 4 or claim 8, wherein the ~~substance is a~~ mutant IL-11R has ~~with~~ at least one mutation in its gp130 binding region.
6. (Amended Twice) The method of claim 5, wherein the ~~substance is a~~ mutant IL-11R has ~~having~~ at least one of the following mutations: D282→G282, A283→D283, G286→D286, H289→Y289, and V291→L291.
7. (Amended Twice) The method of claim 6, wherein the ~~substance is a~~ mutant IL-11R has ~~having~~ the mutation H289→Y289.
8. (Amended Twice) The method of claim ~~6~~ 4, wherein the ~~substance~~ mutant IL-11R is a soluble mutant IL-11R.
9. (Amended Twice) The method of claim 4 or claim 8, wherein the mutant IL-11R is a human IL-11R.
13. (Amended Twice) The method of claim 12, wherein the substance is a peptide comprising the sequence identified by ~~SEQ ID No. 5~~ SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, or SEQ ID NO: 10.